

Monthly Progress Report

Submitted to: Mr. Frank Battaglia, Project Manager
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REC'D 3-5-93
FRB

Pursuant to: RCRA I-88-1088

Facility Site: Cranston, RI

Period Covered: February 1993 (23 January 1993 – 26 February 1993)*

Date Submitted: 10 March 1993

1.0 SUMMARY

This is the thirty-second monthly progress report. Four significant events occurred this month.

Stabilization Investigation. Reduction and interpretation of the data from the pretreatment system sampling continued. The results of the scheduled sampling performed on 2/4–5/93 (Attachment A) were submitted to the Cranston POTW via Self-Monitoring Report. Reduction and interpretation of the data from the HIVAC™ extraction pilot test, the 72-hour tests, the 30-day constant rate test, and the additional single-well constant rate tests continued. Demobilization of the pilot pretreatment system began. The last of the analytical results for the stabilization investigation were received on 2/15/93, so the Stabilization Investigation Report and Design Concepts Proposal (SIR/DCP) will be delivered 11 weeks after this date.

Project Management. On 2/4/93, a meeting was held with personnel from CIBA-GEIGY and Woodward-Clyde Consultants to discuss issues and strategies related to the design of the full-scale stabilization measures. Issues identified by the USEPA regarding the selection of indicator and target compounds were discussed in a teleconference call on 2/19/93 with personnel from the USEPA, CIBA-GEIGY, IT Corporation, and Woodward-Clyde Consultants. Additional work on the selection of indicator and target compounds will be performed to address these issues, and the sampling tasks proposed for the Phase II investigation will be postponed until these issues have been resolved. Preparation of the SIR/DCP continued.

Water Level Monitoring. Monthly groundwater level monitoring continued. Processing groundwater level data from the automatic recorders (transducers) continued.

Hydrological Investigation. Stage height measurements of the river continued. Processing river stage data from the automatic recorders (transducers) continued.

*As agreed, the reporting period will be monthly through the fourth Friday of the month.



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2.0 TASKS AND ACTIVITIES COMPLETED

The sampling and other activities (subtasks) that were completed are reported here.

2.1 Sampling Activities Completed

The following sample was collected:

<u>Sampling Activity</u>	<u>Location(s)</u>	<u>Date(s) Sampled</u>	<u>No. of Samples</u>	<u>Date(s) Sent for Analysis</u>	<u>Analysis</u>
Pretreatment System Sampling	effluent sample port	2/4-5/93	1*	2/5/93	A

* Composite sample collected over 24 hours of operation

A = analyzed for parameters required by Cranston POTW by Rhode Island Analytical Laboratories

2.2 Other Activities Completed

The other activities (subtasks) completed during this reporting period were described in Section 1.0.

3.0 JEOPARDY TASKS (scheduled tasks not completed)

No tasks were in jeopardy as of 26 February 1993.

4.0 OTHER TASKS UNDERWAY (and on schedule)

The tasks that were underway (and on schedule as of 26 February 1993) were described in Section 1.0.

5.0 DATA OBTAINED

Groundwater level data have been obtained but have not yet been peer reviewed. Continuous groundwater level data from the automatic recorders (transducers) were downloaded but have not yet been processed. Stage height measurements of the river were obtained but have not yet been reviewed. Analytical results for the groundwater sampled during the 30-day constant rate test and the additional single-well constant rate tests were received but have not yet been reviewed. Other data from the additional single-well constant rate aquifer tests have been collected but have not yet been processed. Analytical results for the effluent sample (collected on 2/4-5/93) were received; the results indicated that CIBA-GEIGY is in compliance with the discharge limitations set by the Cranston POTW. These results are included in Attachment A.

6.0 PROBLEM AREAS

The resolved, new, potential (i.e., anticipated or possible), and outstanding (i.e., still unresolved) problem areas are reported here.

6.1 Resolved Problem Areas

No new problem areas were resolved during this reporting period.

6.2 **New Problem Areas**

No new problem areas remained unresolved during this reporting period.

6.3 **Potential Problem Areas**

No potential problem areas were identified during this reporting period.

6.4 **Outstanding Problem Areas**

No problem areas remained unresolved during this reporting period.

7.0 **SCHEDULE OF TASKS (next two months)**

The projected schedule is provided here. It covers the tasks to be performed in the next two months (March and April 1993), along with other comments or considerations.

Target Date	Task#	Task	Comments/Considerations
ongoing	—	Stabilization	
ongoing	9	Project Management	
ongoing	10	Data Management	
ongoing	11	Project Administration	
ongoing	12	Quality Assurance	
ongoing	13	Health & Safety Assurance	

8.0 **CHANGES IN WORK PLAN**

No changes were made to the Work Plan during this reporting period.

9.0 **OTHER COMMENTS**

The plans going forward into March and April include:

- continuing data reduction, review, and interpretation,
- continuing to develop the SIR/DCP,
- additional work on the selection of indicator and target compounds, and
- additional planning for future investigations.

The following document is appended:

- Attachment A — Analytical Results for the Pretreatment System Sample Collected on 2/4–5/93

ATTACHMENT A

**Analytical Results for the Pretreatment System Sample
Collected on 2/4–5/93**

CIBA-GEIGY Facility
Cranston, Rhode Island

CERTIFICATE OF ANALYSIS

Woodward-Clyde Consultants

DATE RECEIVED: 2/05/93

DATE REPORTED: 2/12/93

INVOICE #: F1588

PARAMETER	RESULTS			
	EFFLUENT 7A	EFFLUENT 7B	EFFLUENT 7C	EFFLUENT 7D
Volatile Organic Compounds (Method 624):				
chlorobenzene	9 µg/l	9 µg/l	9 µg/l	8 µg/l
dichlorobenzenes	2 "	2 "	2 "	2 "
toluene	2 "	2 "	2 "	2 "
xylene	3 "	3 "	3 "	2 "
Method 603:				
acrolein	<5 µg/l	<5 µg/l	<5 µg/l	<5 µg/l
acrylonitrile	<5 "	<5 "	<5 "	<5 "

Note: A list of volatile organic compounds tested for and their detection limits is attached.

PARAMETER	COMPOSITE* RESULTS
Total Cyanide	0.11 mg/l
Semi-Volatile Organic Compounds (Method 625):	ND

Note: A list of semi-volatile organic compounds tested for and their detection limits is attached.

*Composite of Effluent 7-1, 7-2, 7-3, and 7-4

R.I. ANALYTICAL LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

Woodward-Clyde Consultants

Date Received: 2/05/93

Date Reported: 2/12/93

Invoice #: F1588

PARAMETER	EFFLUENT 7 RESULTS
Total Metals:	
Antimony	<0.005 mg/l
Arsenic	<0.005 "
Beryllium	<0.001 "
Cadmium	<0.01 "
Chromium	<0.03 "
Copper	<0.05 "
Lead	<0.04 "
Manganese	0.73 "
Mercury	<0.0005 "
Nickel	<0.02 "
Silver	<0.02 "
Zinc	<0.02 "

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Volatile Organic Compounds Method #624

chloromethane
bromomethane
vinyl chloride
dichlorodifluoromethane
chloroethane
methylene chloride
trichlorofluoromethane
1,1-dichloroethylene
1,1-dichloroethane
trans-1,2-dichloroethylene
chloroform
1,2-dichloroethane
1,1,1-trichloroethane
carbon tetrachloride
bromodichloromethane
1,2-dichloropropane
cis-1,3-dichloropropylene
trichloroethylene
trans-1,3-dichloropropylene
1,1,2-trichloroethane
dibromochloromethane
bromoform
tetrachloroethylene
1,1,2,2-tetrachloroethane
chlorobenzene
2-chloroethyl vinyl ether
dichlorobenzenes
benzene
toluene
ethylbenzene
xylenes

Detection Limit: 1 µg/l

RI ANALYTICAL LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

Woodward Clyde Consultants

Date Received: 2/05/93

Date Reported: 2/12/93

Invoice #: F1588

SEMI-VOLATILE ORGANIC COMPOUNDS Method #625

Base/Neutral Extractables:

acenaphthene
acenaphthylene
anthracene
benzidine
benzo(a)anthracene
benzo(b)fluoranthene
benzo(k)fluoranthene
benzo(g,h,i)perylene
benzo(a)pyrene
bis(2-chloroethyl)ether
bis(2-chloroethoxy)methane
bis(2-chloroisopropyl)ether
bis(2-ethylhexyl)phthalate
4-bromophenyl phenyl ether
butylbenzyl phthalate
2-chloronaphthalene
4-chlorophenyl phenyl ether
chrysene
dibenzo(a,h)anthracene
di-n-butyl phthalate
1,2-dichlorobenzene
1,3-dichlorobenzene
1,4-dichlorobenzene
3,3'-dichlorobenzidine
diethyl phthalate
dimethyl phthalate
2,4-dinitrotoluene
2,6-dinitrotoluene
di-n-octyl phthalate
1,2-diphenylhydrazine
fluoranthene
fluorene

hexachlorobenzene
hexachlorobutadiene
hexachlorocyclopentadiene
hexachloroethane
Indeno(1,2,3-cd)pyrene
isophorone
naphthalene
nitrobenzene
N-nitrosodimethylamine
N-nitrosodiphenylamine
N-nitrosodi-n-propylamine
phenanthrene
pyrene
1,2,4-trichlorobenzene

Acid Extractables:

4-chloro-3-methylphenol
2-chlorophenol
2,4-dichlorophenol
2,4-dimethyl phenol
2-methyl-4,6-dinitrophenol
2,4-dinitrophenol
2-nitrophenol
4-nitrophenol
pentachlorophenol
phenol
2,4,6-trichlorophenol

DETECTION LIMIT: 10 µg/l

R.I. ANALYTICAL LABORATORIES, INC.